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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/994,211
	Filing Date	November 26, 2001
	First Named Inventor	Antonio Cosma
	Group Art Unit	1641
	Examiner Name	Le, Long V.
Total Number of Pages in This Submission	Attorney Docket Number	AP33639 068712.0102

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): See attached
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks <input type="checkbox"/>	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	BakerBotts LLP 30 Rockefeller Plaza New York, NY 10112
Signature	 Att Name: Lisa B. Kole PTO Reg: 35,225
Date	October 20, 2003

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on this date: October 20, 2003	
Typed or printed name	Lisa B. Kole
Signature	
Date	October 20, 2003

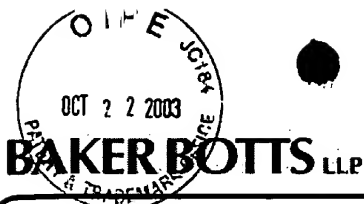
**BAKER BOTTS** LLP

Attorney Docket Number: AP33639 068712.0102

Title: HIGH THROUGHPUT DETERMINATION OF ANTIGEN EXPRESSION

Use Space Below for Additional Information:

Transmittal Form (2 sheets),  
Fee Transmittal (1 sheet),  
Information Disclosure Statement (3 sheets),  
Form PTO-1449 (1 sheet),  
copies of 9 documents,  
International Search Report (3 sheets),  
Return Postcard



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for FY 2003**

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$0)

**Complete if Known**

Application Number	09/994,211
Filing Date	November 26, 2001
First Named Inventor	Antonio Cosma
Examiner Name	Le, Long V.
Art Unit	1641
Attorney Docket No.	AP33639 068712.0102

**METHOD OF PAYMENT (check all that apply)**☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit  
Account  
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Deposit  
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02-4377

Baker Botts LLP

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Credit any overpayments☒ Charge any additional fee required under 37CFR 1.16 and 1.17☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	520	2003	260	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$0)

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims		Extra Claims		Fee from below		Fee Paid	
Independent Claims		- 20 =	0	X		=	0
Multiple Dependent		- 3 =	0	X		=	0

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$0)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	410	2252	205	Extension for reply within second month	
1253	930	2253	465	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	280	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,300	2501	650	Utility issue fee (or reissue)	
1502	470	2502	235	Design issue fee	
1503	630	2503	315	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$0)

**SUBMITTED BY**

(Complete if applicable)

Name (Print/Type)

Lisa B. Kole

Registration No.  
(Attorney/Agent)

35,225

Telephone

212-408-2628

Signature

[Signature]

Date

October 20, 2003



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Antonio Cosma  
Serial No. : 09/994,211 Examiner : Le, Long V.  
Filed : November 26, 2001 Group Art Unit : 1641  
For : HIGH THROUGHPUT DETERMINATION OF ANTIGEN EXPRESSION

**INFORMATION DISCLOSURE STATEMENT**

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Arlington, VA 22313-1450

October 20, 2003

Date of Deposit

Lisa B. Kole

Attorney Name

Signature

35,225

PTO Registration No.

October 20, 2003

Date of Signature

Commissioner for Patents  
P.O. Box 1450  
Arlington, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §1.56 and §1.97(c)(2), Applicant respectfully requests that the documents relating to the above-identified application listed herein in reverse chronological alphabetical order be considered and made of record in the U.S. Patent and Trademark Office.

1. Askari M et al., 2001, "Application of an antibody biochip for p53 detection and cancer diagnosis" *Biotechnol Prog.* 17(3):543-552;
2. Bashir R et al., 2001, "Adsorption of avidin on microfabricated surfaces for protein biochip applications" *Biotechnology and Bioengineering* 73(4):324-328;

3. Wu G et al., 2001, "Bioassay of prostate-specific antigen (PSA) using microcantilevers" *Nat Biotechnol.* 19(9):856-860;
4. Xiao Z et al., 2001, "Quantitation of serum prostate-specific membrane antigen by a novel protein biochip immunoassay discriminates benign from malignant prostate disease" *Cancer Res.* 61(16):6029-6033;
5. Cosma A, United States Patent No. 6,150,123 issued November 21, 2000;
6. Hardman N et al., United States Patent No. 6,072,035 issued June 6, 2000;
7. MacBeath G and Schreiber SL, 2000, "Printing proteins as microarrays for high-throughput function determination" *Science* 289:1760-1763;
8. Hoeffer et al., WO 99/40434 published August 12, 1999;
9. Kauvar LM, United States Patent No. 5,541,070 issued July 30, 1996;
10. *Short Protocols in Molecular Biology*, 1995, Ausubel et al., eds. John Wiley & Sons, New York, pp. 10-55 to 10-58;
11. *Short Protocols in Molecular Biology*, 1995, Ausubel et al., eds. John Wiley & Sons, New York, pp. 10-72 to 10-73;
12. Meier T et al., 1992, "Immunodetection of biotinylated lymphocyte-surface proteins by enhanced chemiluminescence: a nonradioactive method for cell-surface protein analysis" *Anal. Biochem.* 204:220-226; and
13. Nesbitt SA and Horton MA, 1992, "A nonradioactive biochemical characterization of membrane proteins using enhanced chemiluminescence" *Anal. Biochem.* 206:267-272.

The referenced citations are listed in the accompanying PTO Form 1449. Copies of the documents are submitted herewith in one bound volume.

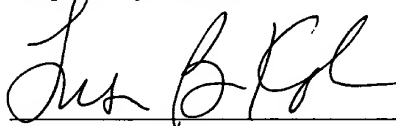
Applicant also encloses herewith a copy of the International Search Report (at Tab 14) that was issued in connection with International Application No. PCT/EP01/14767 (WO 02/46757).

Identification of the documents listed in the attached PTO Form 1449 is not to be construed as an admission of Applicants or Attorneys for Applicants that such documents are available as "prior art" against the above-identified application.

No Office Action has been issued as indicated by the Patent Application Information Retrieval system (PAIR). Therefore, Applicants do not believe that any fees are due with this submission pursuant to 37 C.F.R. §1.97(b)(3). Nevertheless, the Commissioner is hereby authorized to charge any fees due with this submission not otherwise enclosed herewith to Deposit Account No. 02-4377. Please credit any overpayment of fees associated with this filing to the above-identified deposit account. A duplicate of this page is enclosed.

October 20, 2003

Respectfully submitted,



Lisa B. Kole  
PTO Reg. No. 35,225  
Attorney for Applicants

Guy F. Birkenmeier  
PTO Reg. No. 52,622  
Agent for Applicants

BAKER BOTTS, L.L.P.  
30 Rockefeller Plaza  
New York, NY 10112  
(212) 408-2626

Enclosures

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
AP33639 068712.0103

Serial No.  
09/994,211

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

(Use several sheets if necessary)

Applicant  
Antonio Cosma

Filing Date  
November 26, 2001

Group  
1641

OCT 24 2003

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**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
5.	6 1 5 0 1 2 3	11/21/2000	Antonio Cosma			
6.	6 0 7 2 0 3 5	06/06/2000	Norman Hardman et al.			
9.	5 5 4 1 0 7 0	07/30/1996	Lawrence Kauvar			

**FOREIGN PATENT DOCUMENT**

Document No.	Date	Country	Class	SubClass	Translator Yes No
8. WO 99/ 4 0 4 3 4	08/12/1999	WIPO			

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

1.	Askari M et al., 2001, "Application of an antibody biochip for p53 detection and cancer diagnosis" <i>Biotechnol Prog.</i> 17(3):543-552
2.	Bashir R et al., 2001, "Adsorption of avidin on microfabricated surfaces for protein biochip applications" <i>Biotechnology and Bioengineering</i> 73(4):324-328
3.	Wu G et al., 2001, "Bioassay of prostate-specific antigen (PSA) using microcantilevers" <i>Nat Biotechnol.</i> 19(9):856-860
4.	Xiao Z et al., 2001, "Quantitation of serum prostate-specific membrane antigen by a novel protein biochip immunoassay discriminates benign from malignant prostate disease" <i>Cancer Res.</i> 61(16):6029-6033
7.	MacBeath G and Schreiber SL, 2000, "Printing proteins as microarrays for high-throughput function determination" <i>Science</i> 289:1760-176
10.	<i>Short Protocols in Molecular Biology</i> , 1995, Ausubel et al., eds. John Wiley & Sons, New York, pp. 10-55 to 10-58
11.	<i>Short Protocols in Molecular Biology</i> , 1995, Ausubel et al., eds. John Wiley & Sons, New York, pp. 10-72 to 10-73
12.	Meier T et al., 1992, "Immunodetection of biotinylated lymphocyte-surface proteins by enhanced chemiluminescence: a nonradioactive method for cell-surface protein analysis" <i>Anal. Biochem.</i> 204:220-226
13.	Nesbitt SA and Horton MA, 1992, "A nonradioactive biochemical characterization of membrane proteins using enhanced chemiluminescence" <i>Anal. Biochem.</i> 206:267-272

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.